

Ford Escape Advanced Research Fleet

Number of vehicles: 21

Date range of data received: 11/01/2009 to 10/31/2012

Reporting period: November 09 -
October 12

Number of vehicle days driven: 10,119

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	101
Overall DC electrical energy consumption (DC Wh/mi) ²	69
Total number of trips	48,648
Total distance traveled (mi)	580,392

Trips in Charge Depleting (CD) mode³

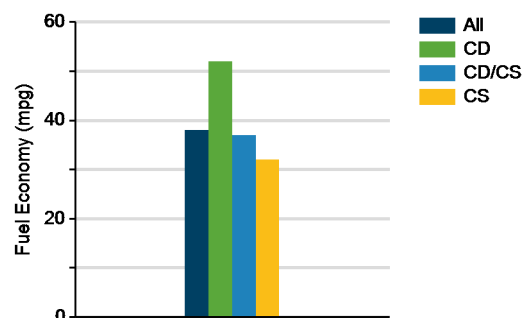
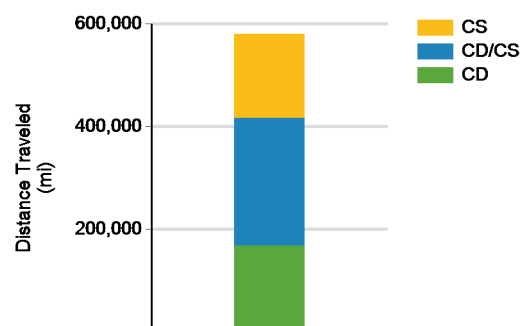
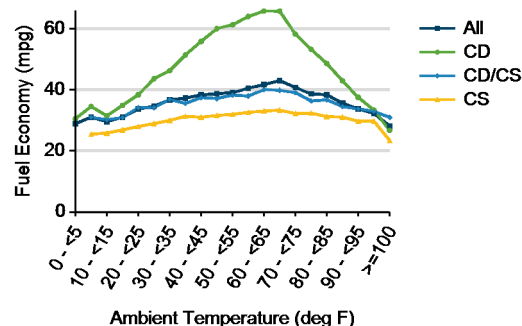
Gasoline fuel economy (mpg)	52
DC electrical energy consumption (DC Wh/mi) ⁴	162
Number of trips	28,421
Percent of trips city highway	83% 17%
Distance traveled (mi)	168,661
Percent of total distance traveled	29%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	54
Number of trips	9,137
Percent of trips city highway	38% 63%
Distance traveled (mi)	248,610
Percent of total distance traveled	43%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	11,080
Percent of trips city highway	66% 34%
Distance traveled (mi)	163,120
Percent of total distance traveled	28%

Gasoline Fuel Economy By Trip Type

Distance Traveled By Trip Type

Fuel Economy By Ambient Temperature


Notes: 1 - 7. Please see <http://avt.inl.gov/pdf/phev/fordreportnotes.pdf> for an explanation of all PHEV Fleet Testing Report notes.

Since these vehicles are flex-fuel capable, some driving events are conducted with E-85, which may decrease fuel economy results

"The Ford Escape Advanced Research Fleet was designed as a demonstration of customer duty cycles related to plug-in electric vehicles. The vehicles used in this demonstration have not been optimized to provide the maximum potential fuel economy."

Trips in Charge Depleting (CD) mode

	City	Highway
Gasoline fuel economy (mpg)	48	58
DC electrical energy consumption (DC Wh/mi)	159	165
Percent of miles with internal combustion engine off	36%	11%
Average trip driving intensity (Wh/mi)	275	313
Average trip distance (mi)	4	18

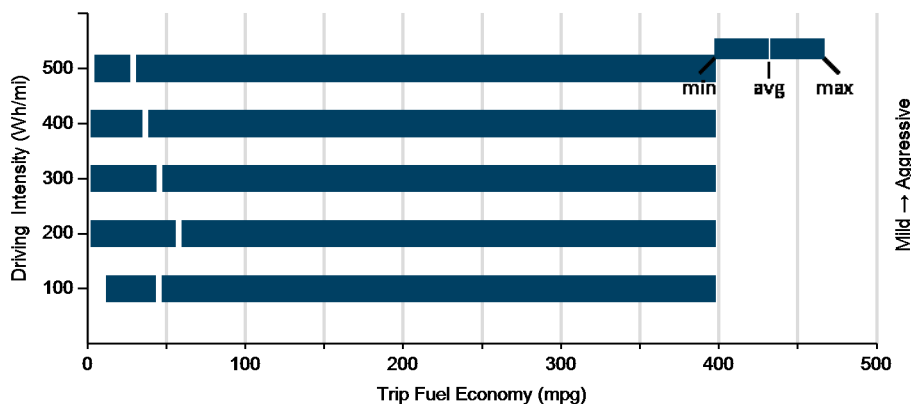
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	42	37
DC electrical energy consumption (DC Wh/mi)	73	51
Percent of miles with internal combustion engine off	29%	5%
Average trip driving intensity (Wh/mi)	283	330
Average trip distance (mi)	9	38

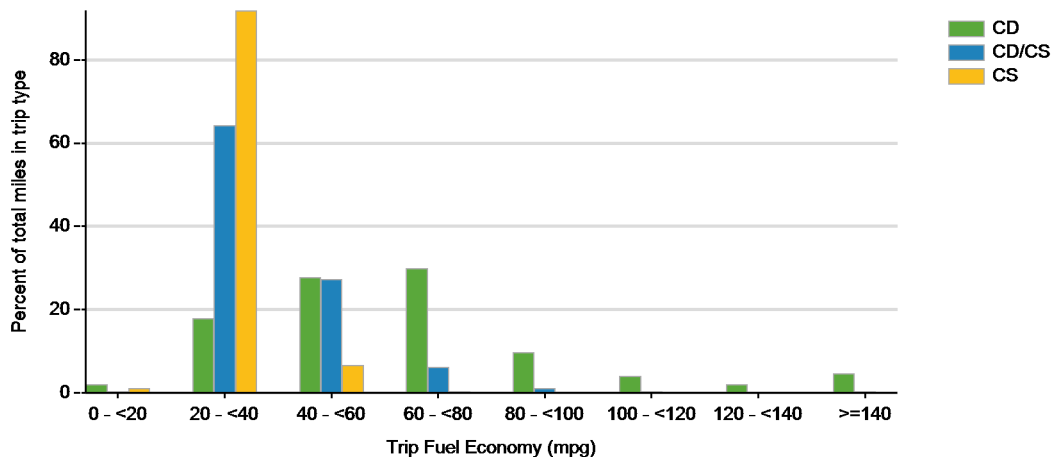
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	30	32
Percent of miles with internal combustion engine off	23%	4%
Average trip driving intensity (Wh/mi)	273	326
Average trip distance (mi)	4	36

Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



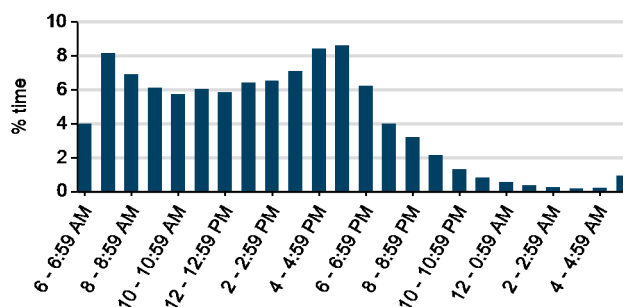
Trip Fuel Economy Distribution By Trip Type



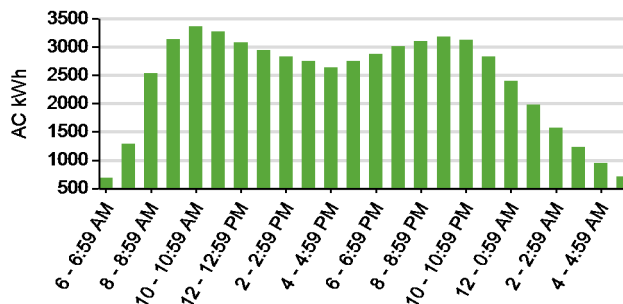
Plug-in charging

Average number of charging events per vehicle per month when driven	28
Average number of charging events per vehicle per day when driven	1.9
Average distance driven between charging events (mi)	30.4
Average number of trips between charging events	2.5
Average time plugged in per charging event (hr)	7.4
Average time charging per charging event (hr)	2.2
Average energy per charging event (AC kWh)	3.0
Average charging energy per vehicle per month (AC kWh)	85.2
Total number of charging events	19,115
Total charging energy (AC kWh)	58,440

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

